

Appendix A

TECHNICAL SOLUTIONS DECISION TREES

Water Systems

- 1) Any existing concerns with the water system?
- 2) Sources of water
 - a. Groundwater (wells)?
 - b. Number of wells?
 - c. Surface water?
 - d. Both?
- 3) Water Demands (in consultation with an engineer)
 - a. Water production (avg gpd for every month)?
 - b. Potable?
 - c. Non-potable?
 - d. Water meters installed?
 - e. Is water demand able to be met year round?
- 4) Existing Water Treatment
 - a. Chlorination?
 - b. Other treatment? Provide details.
- 5) Water Quality
 - a. Is the water quality currently meeting all standards?
 - b. Is the system under a State/EPA compliance order?
 - c. Provide detailed water quality analysis. At least results submitted to CDPH.
- 6) Infrastructure (in consultation with an engineer)
 - a. Are there leaks in the water distribution system?

Information to be Gathered in Order to Use Decision Trees

- b. Are there other sources of water available?
- c. Is there the possibility of connecting to a neighboring water system?
- d. What are existing water rates?
- e. Is there land available for water treatment?
- f. What is the grade of existing water operator?
- g. Are pump curves and horsepower available for all pumps (including well pumps)?
- 7) Funding
 - a. Has funding been applied for from any agency?

Wastewater Systems

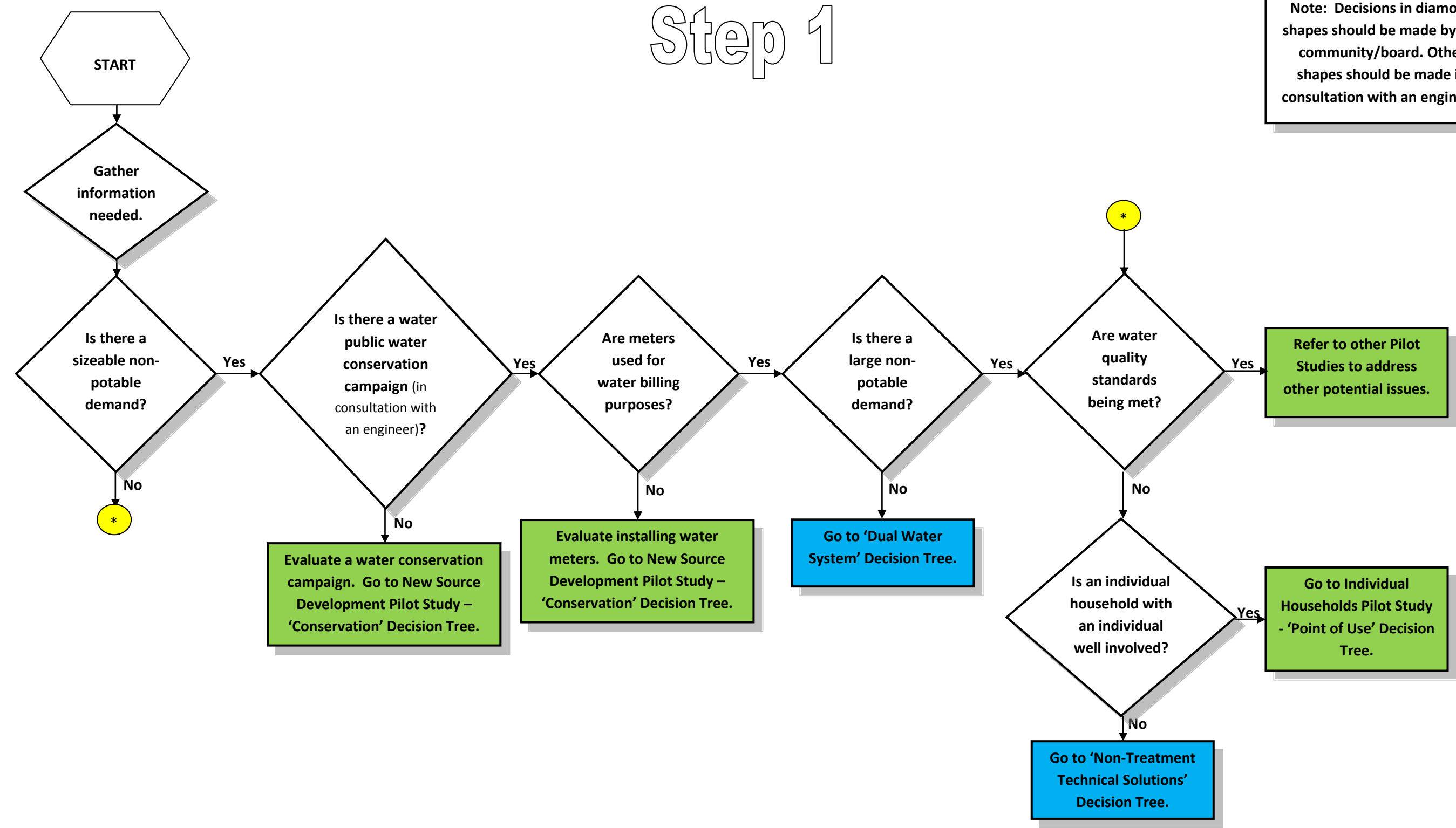
- 1) Any existing concerns with the wastewater system?
- 2) How is wastewater treated?
 - a. Individual household septic systems?
 - b. Centralized wastewater treatment plant?
- 3) How is wastewater treated?
 - a. Aerated lagoon?
 - b. Trickling filter?
 - c. Digesters (anaerobic or aerobic)?
 - d. Are pump curves and horsepower available for all pumps (including well pumps)?
- 4) Treated wastewater quality

- a. Is treated wastewater meeting all applicable discharge limits?
- b. If there were violations, what were the violations for?
- 5) Disposal of treated wastewater
 - a. Is discharge to land (percolation, evaporation, leachfields, spray field, other)?
 - b. Any discharge to surface water?
- 6) Disposal of wastewater solids
 - a. Are solids dewatered?
 - b. How are solids stored?
 - c. How are solids from the wastewater process disposed of (land, landfill, other)?
- 7) Infrastructure
 - a. Is there an existing collection system? Is it adequate for existing flows?
 - b. Is there the possibility of connecting to a neighboring wastewater system?
 - c. What are existing sewer rates?
 - d. Is there land available for additional wastewater treatment?
 - e. Grade of existing wastewater operator?
 - f. Are pump curves and horsepower available for all pumps (including well pumps)?
- 8) Funding
 - a. Has funding been applied for from any agency?

TECHNICAL SOLUTIONS DECISION STARTING TREE

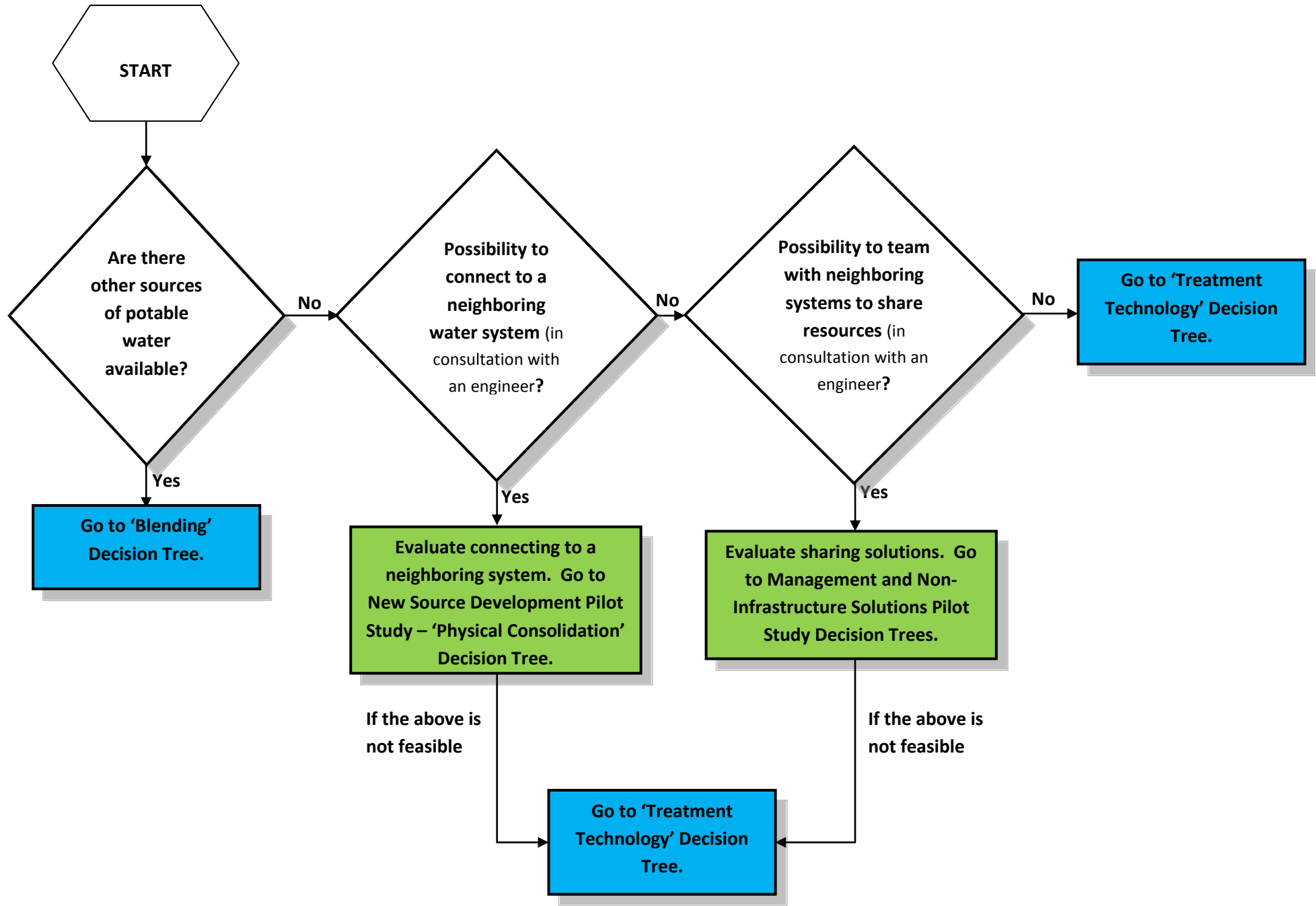
Step 1

Note: Decisions in diamond shapes should be made by the community/board. Other shapes should be made in consultation with an engineer.



NON-TREATMENT TECHNICAL SOLUTIONS DECISION TREE

Step 2

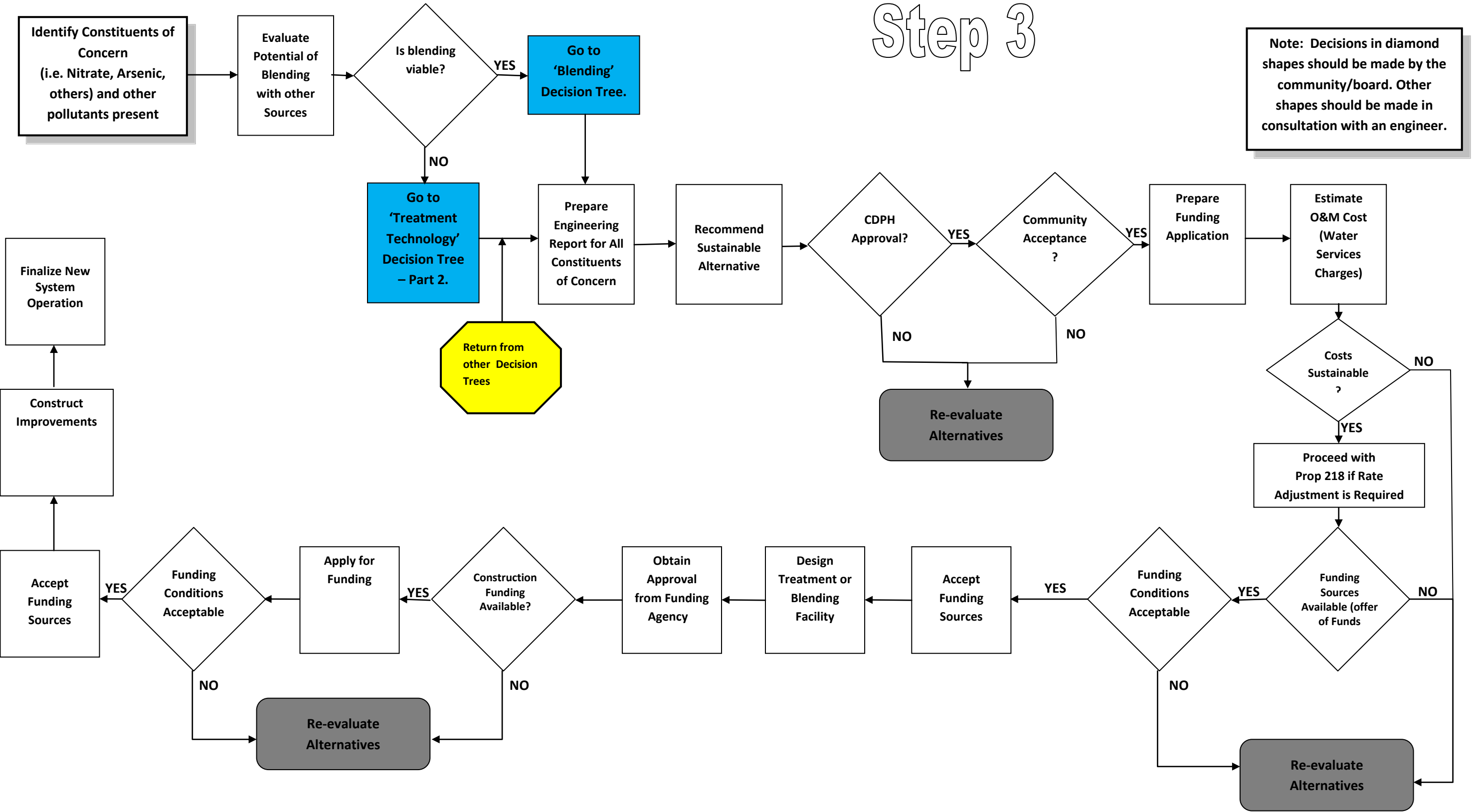


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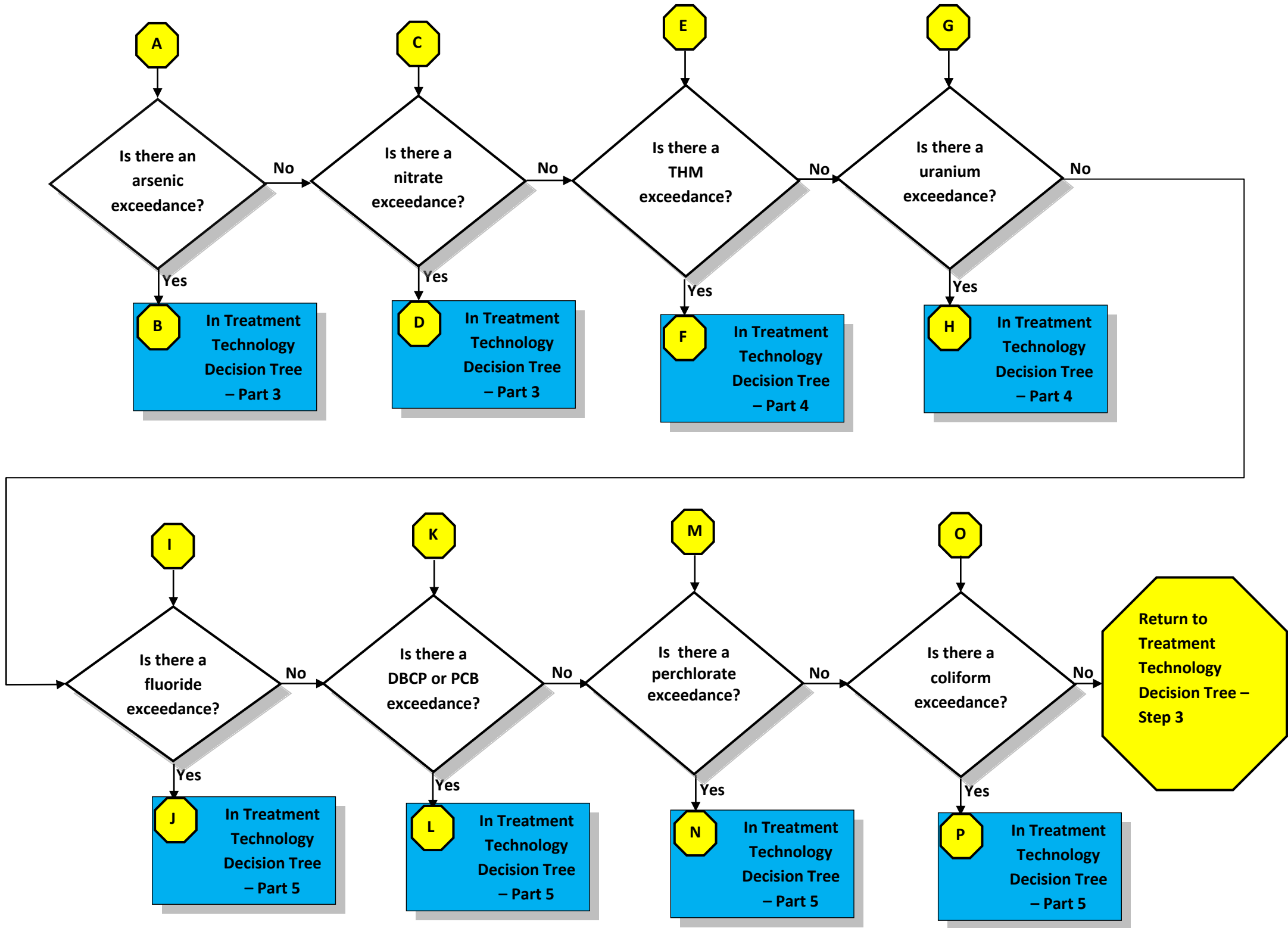
TECHNICAL SOLUTIONS DECISION TREES

TREATMENT TECHNOLOGY DECISION TREE

Step 3



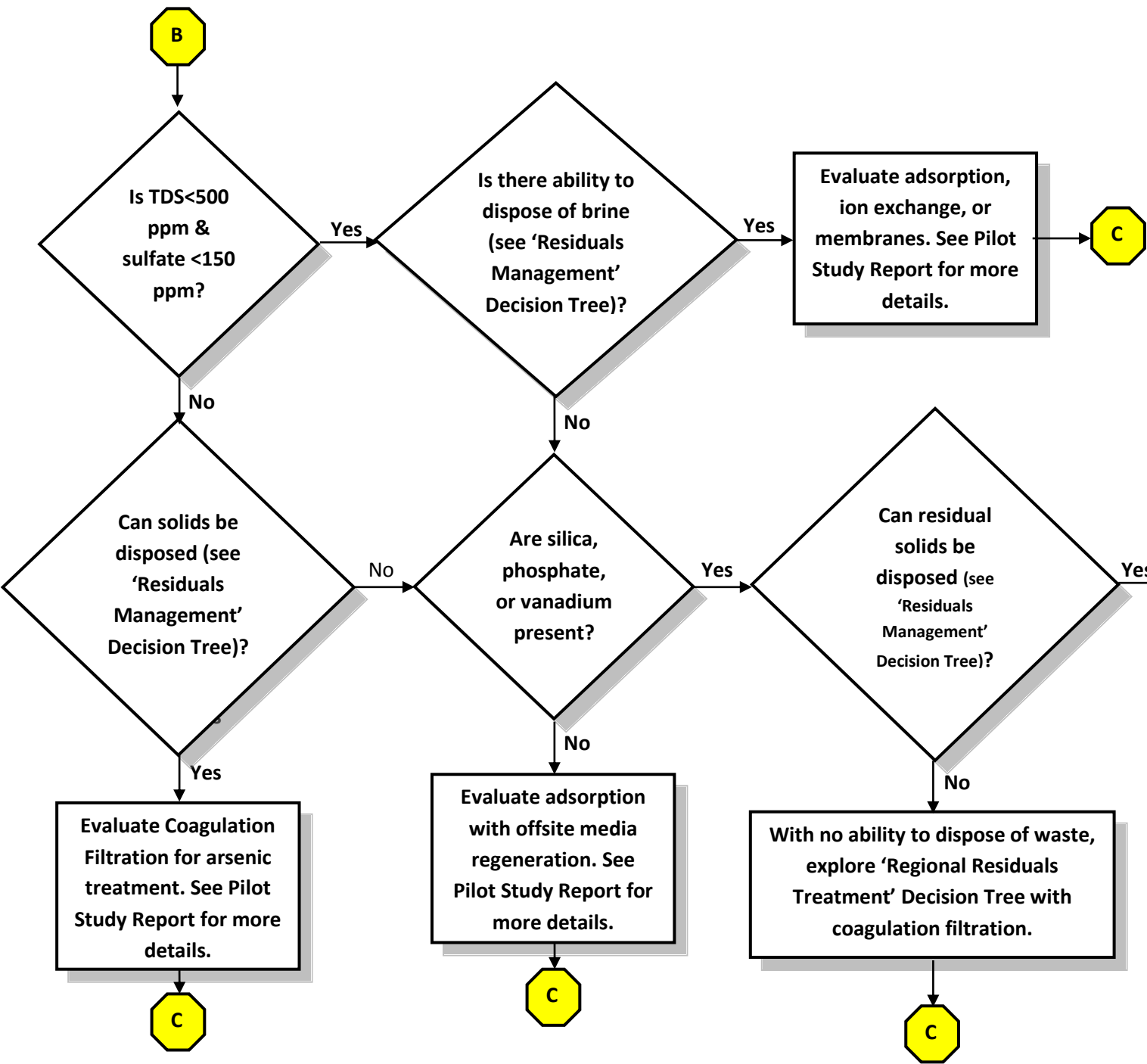
TREATMENT TECHNOLOGY DECISION TREE – Part 2



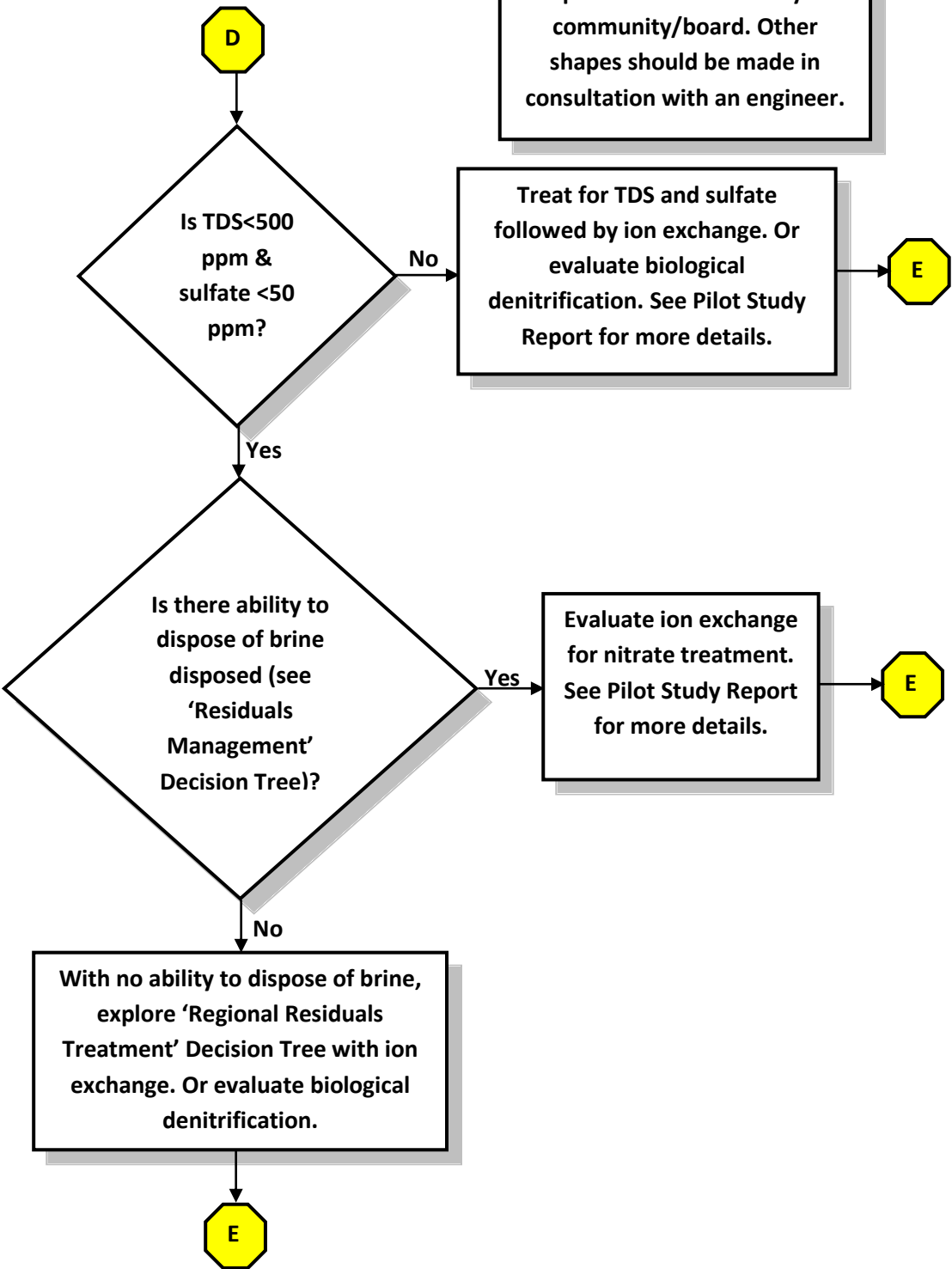
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TREATMENT TECHNOLOGY DECISION TREE – Part 3

Arsenic Treatment

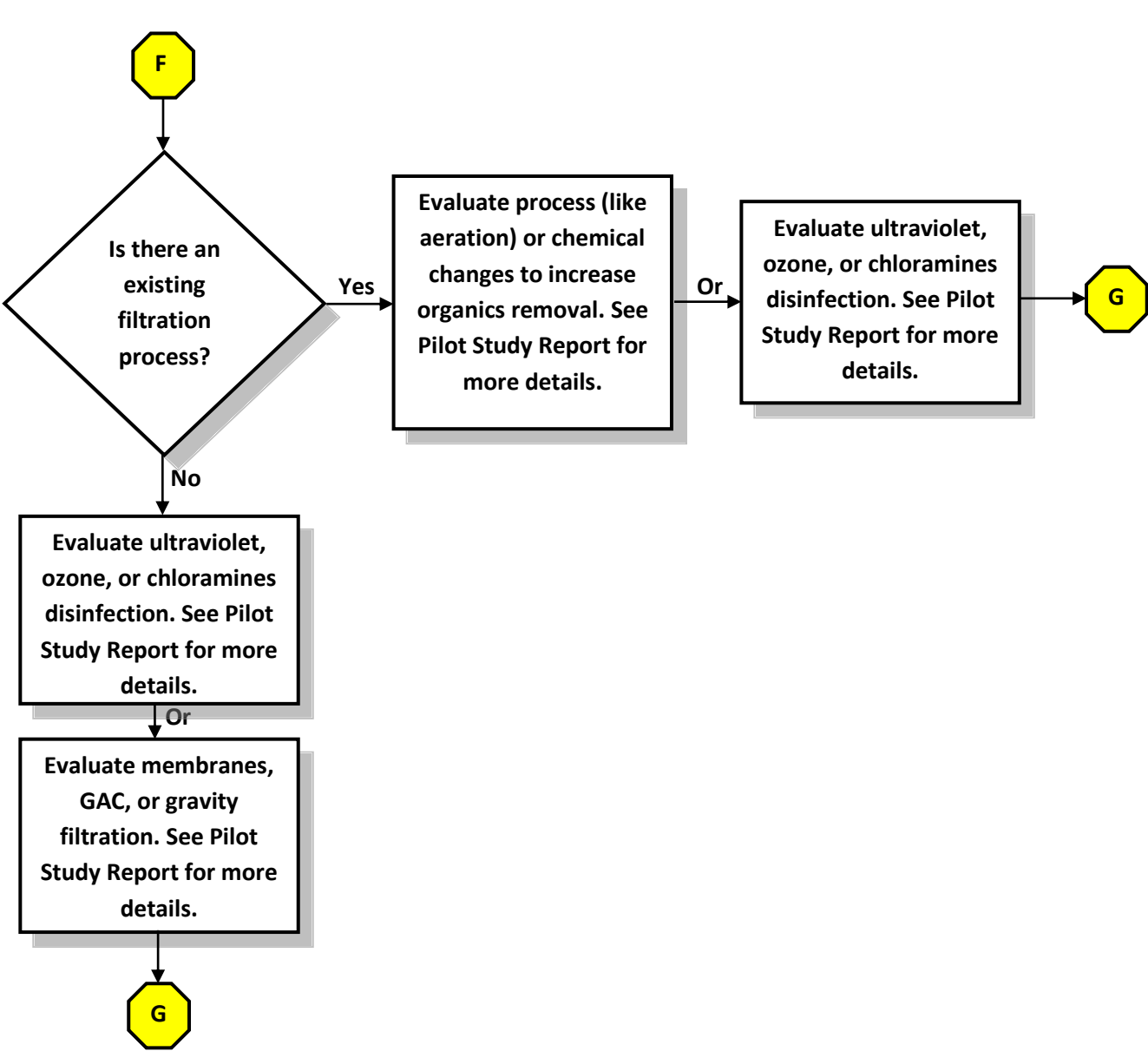


Nitrate Treatment

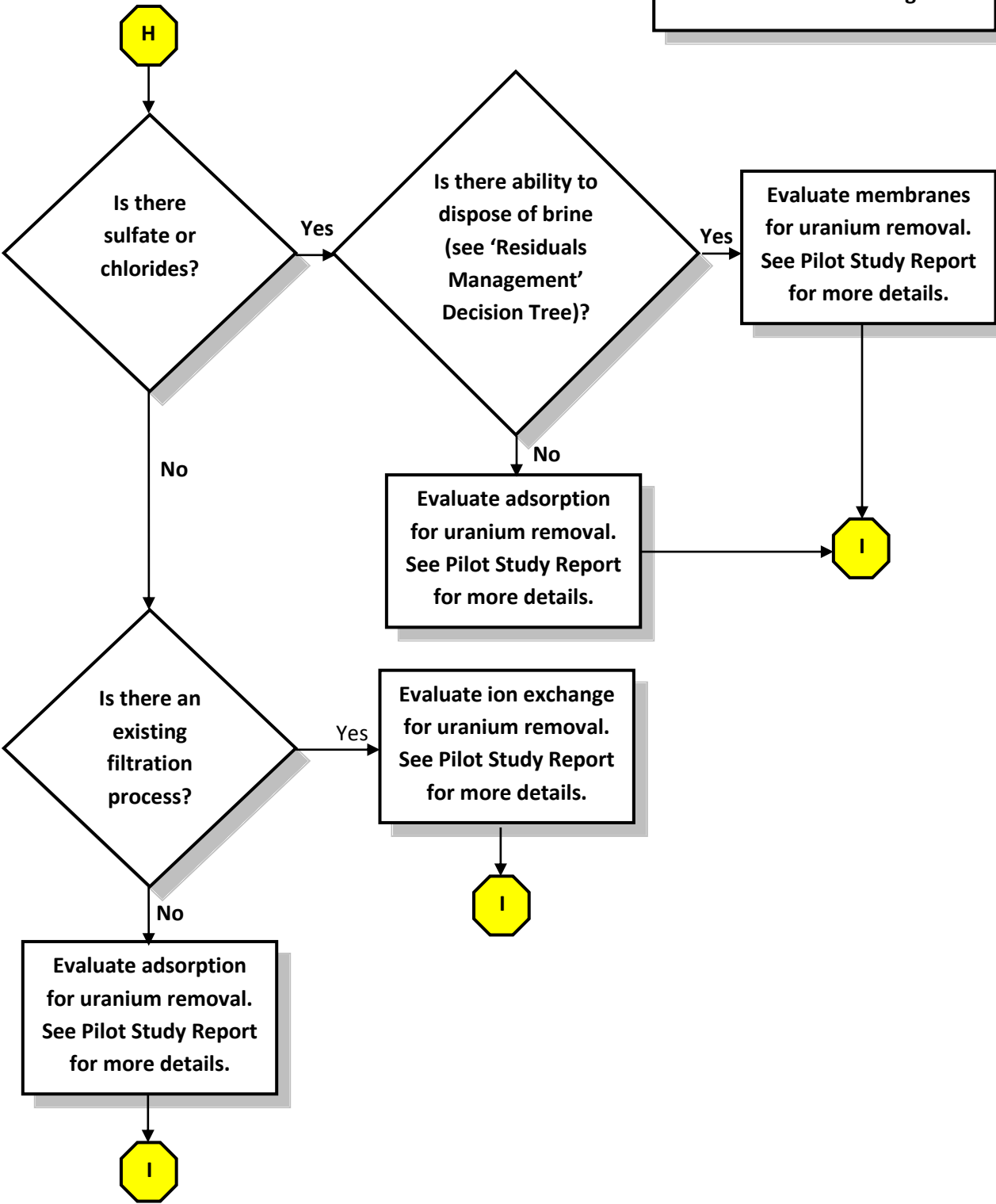


TREATMENT TECHNOLOGY DECISION TREE – Part 4

THM Treatment

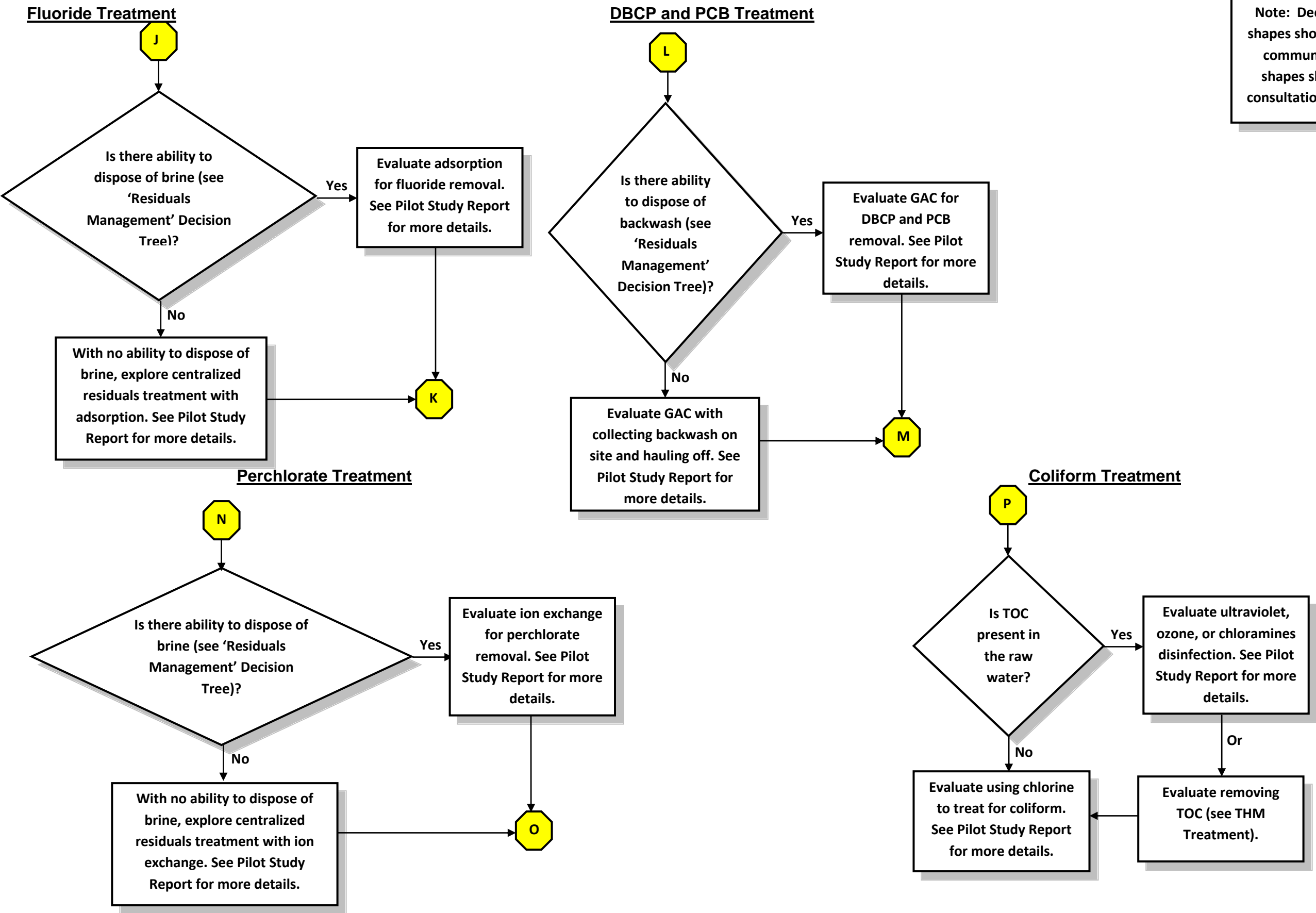


Uranium Treatment



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TREATMENT TECHNOLOGY DECISION TREE – Part 5

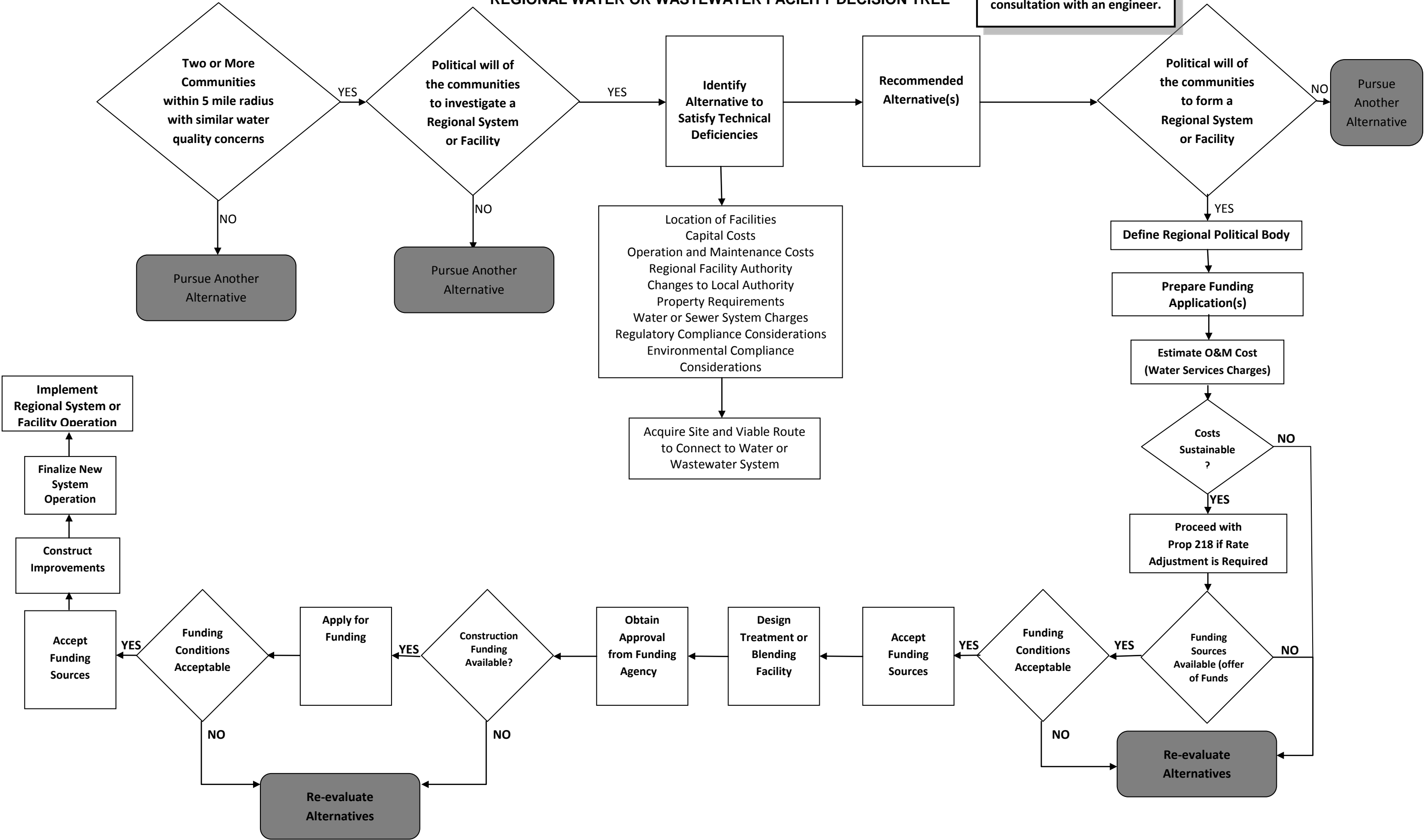


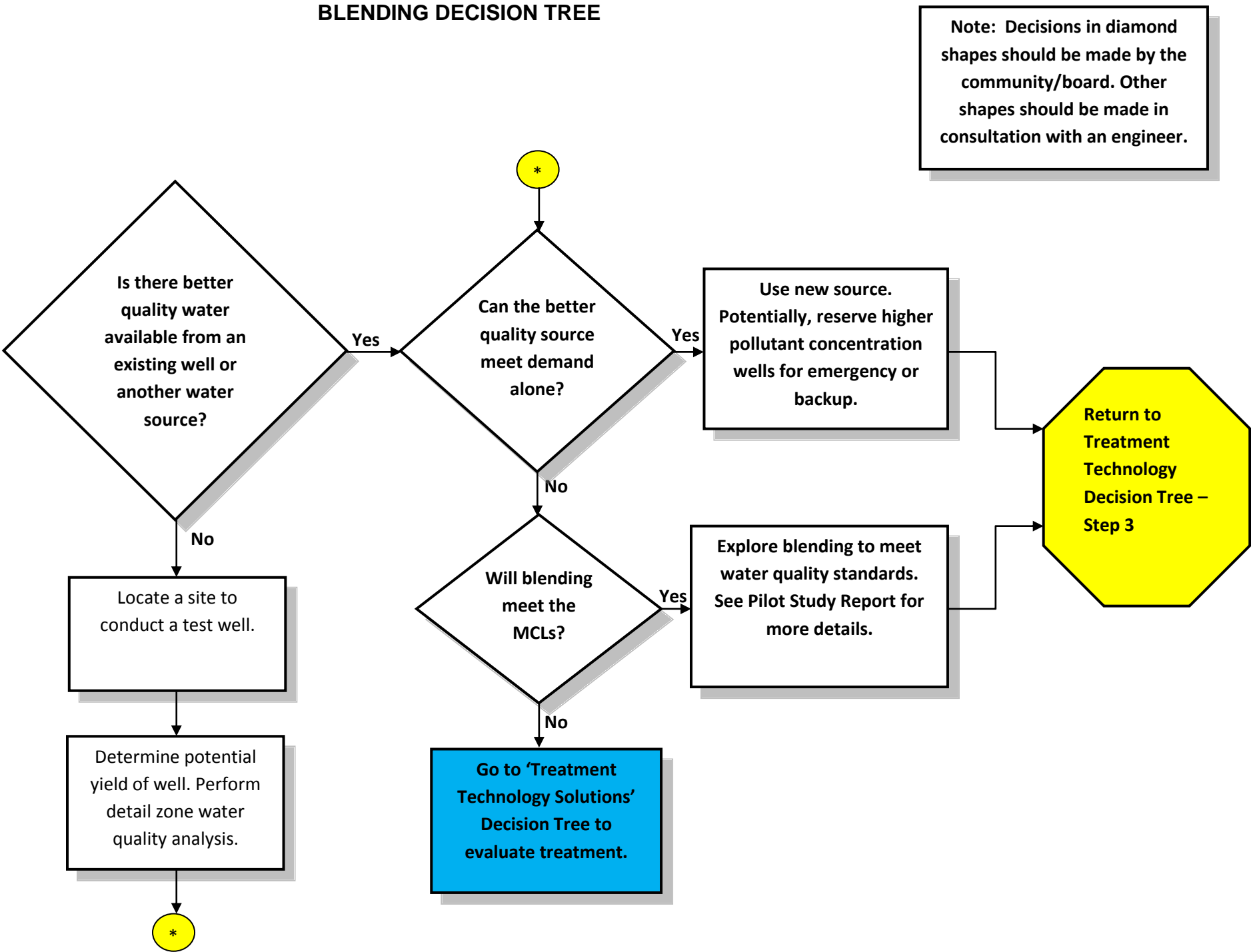
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TECHNICAL SOLUTIONS DECISION TREES

REGIONAL WATER OR WASTEWATER FACILITY DECISION TREE

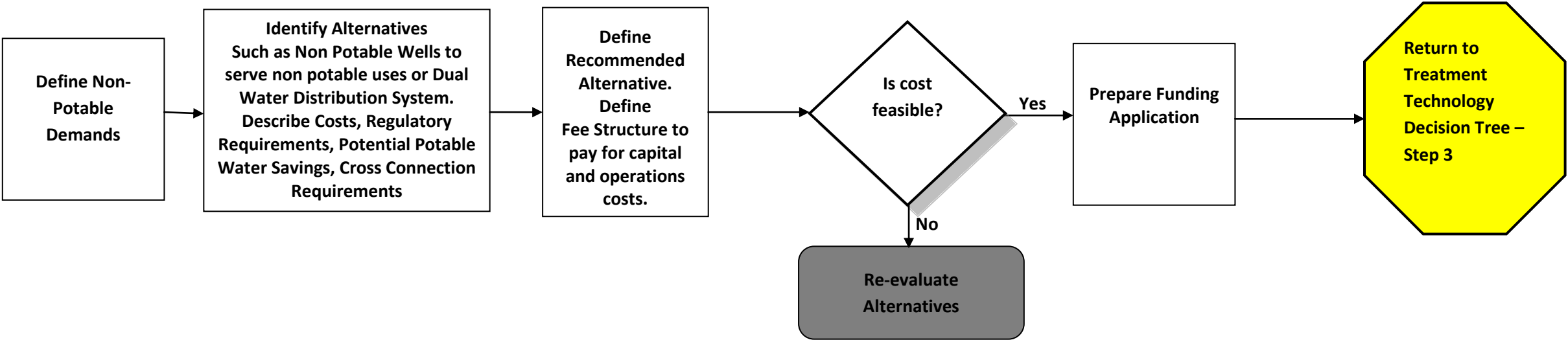
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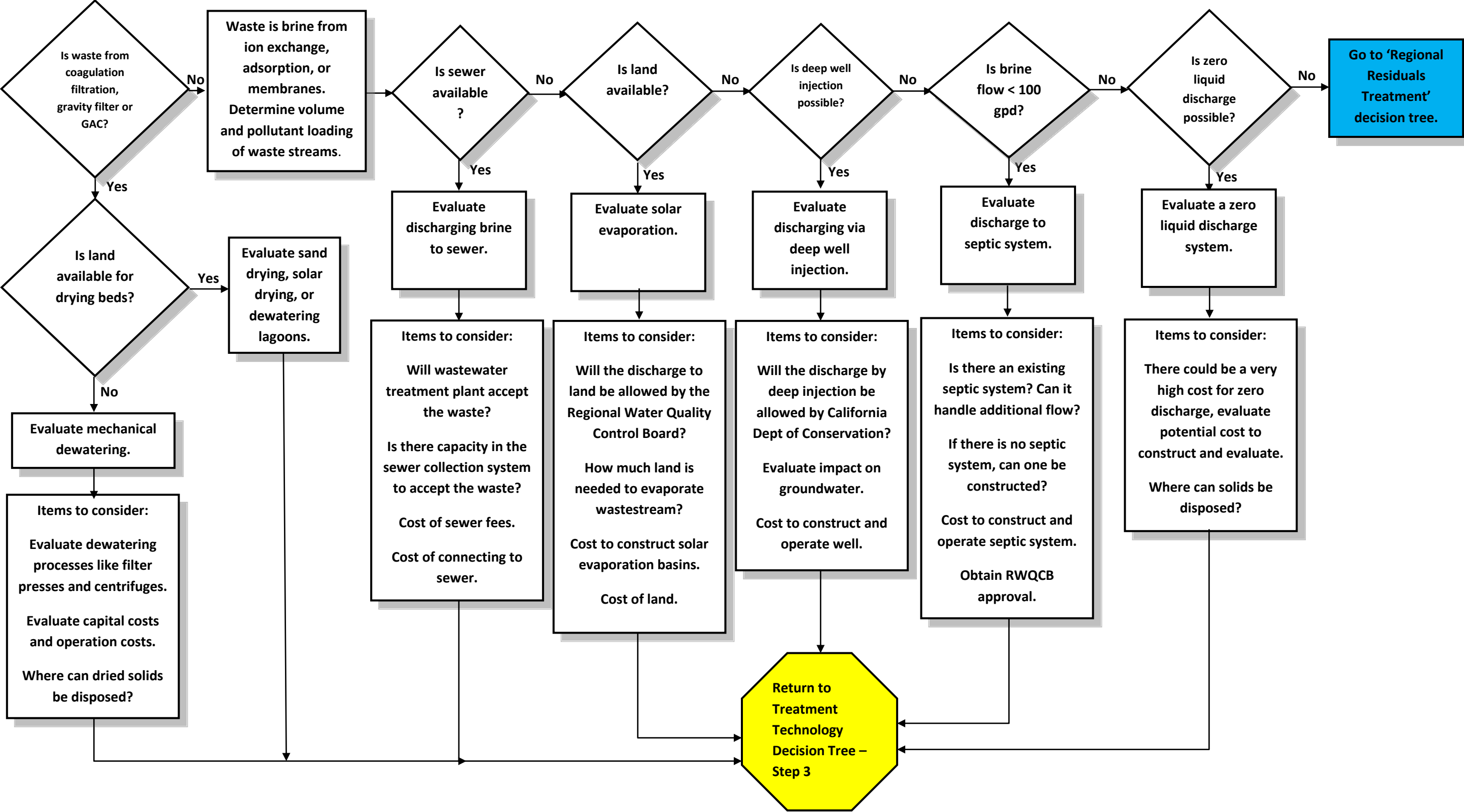
DUAL WATER SYSTEM DECISION TREE

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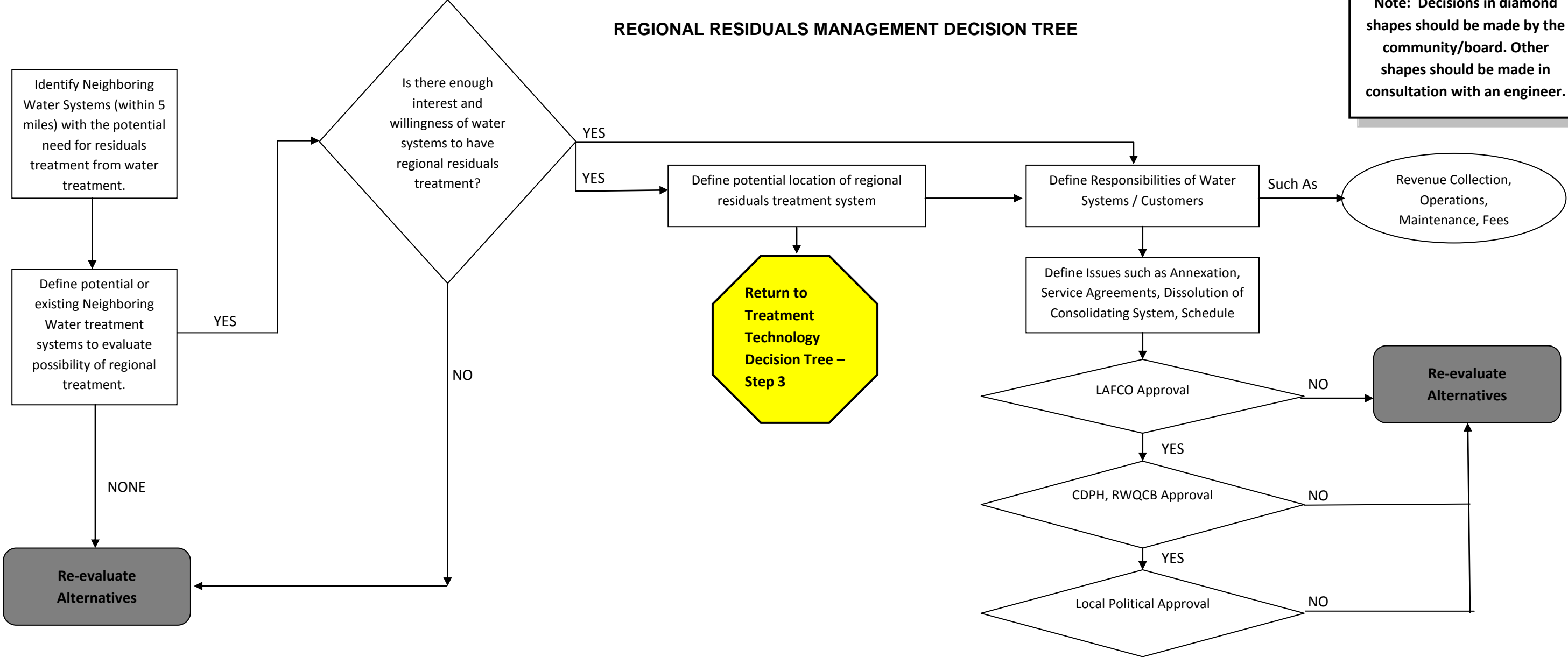


RESIDUALS MANAGEMENT DECISION TREE

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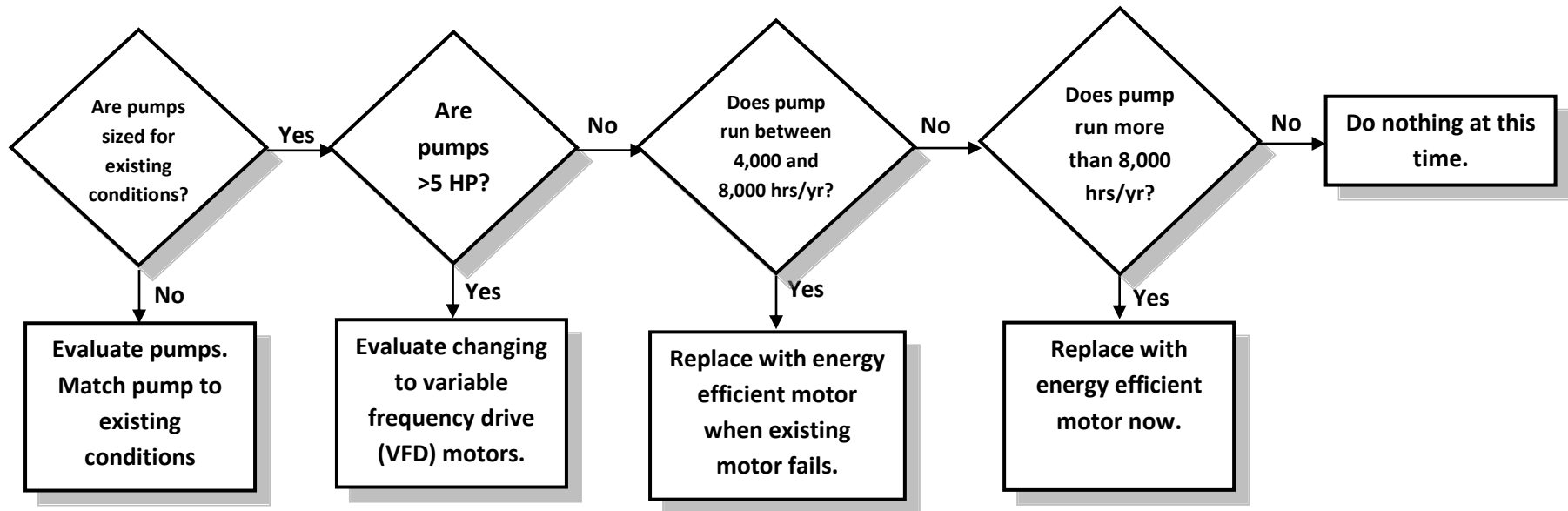


TECHNICAL SOLUTIONS DECISION TREES



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Energy Conservation



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Renewable Energy

